21/2

## NRT/KS/19/2194

## Bachelor of Science (B.Sc.) Semester—VI Examination ICH-606: CLINICAL PHARMACEUTICAL CHEMISTRY

## **Optional Paper—2**

## (Industrial Chemistry)

Tim	e : Tl	hree Hours] [Maximum Maximum M	arks: 50
	N.B	:— (1) All <b>FIVE</b> questions are compulsory and carry equal marks.	
		(2) Give neat and well labelled diagrams wherever necessary.	
1.	(A)	What is drug? Discuss the nomenclature of drugs. Explain the drug metabolism.	5
	(B)	Explain the determination of sugar in serum.	5
		OR	
	(C)	How will you detect the cholesterol in urine ? Explain.	21/2
	(D)	Explain the red cell count.	21/2
	(E)	Explain the mechanism of drug action.	21/2
	(F)	Write a note on metabolism in medicinal chemistry.	21/2
2.	(A)	Give the various causes of insect borne diseases. Explain their prevention.	5
	(B)	Explain water borne diseases. What are their consequences ?	5
		OR	
	(C)	Explain disorder of digestive system.	21/2
	(D)	Explain various causes of air borne diseases.	21/2
	(E)	Write a note on respiratory diseases and their mode of action.	21/2
	(F)	What are diseases? Give example of disease.	21/2
3.	(A)	What are antipyretic drugs? Explain its mode of action and importance.	5
	(B)	What is first aid? Explain basic first aid treatment of shock and haemorrhage.	5
		OR	
	(C)	Write a note on anti-inflammatory agents.	21/2
	(D)	Explain analgesic action of morphine.	21/2
	(E)	Explain first aid treatment of cuts and wounds.	21/2
	(F)	Explain general anaesthetic agent with suitable example.	21/2
4.	(A)	What is diabetes? How can one control it naturally?	5
	(B)	What are sulphonamides? Explain mechanism of action of 'sulpha' drugs.	5
		OR	
	(C)	Explain, how cancer is spread up.	21/2
	(D)	Explain chemical structure of insulin.	21/2
	(E)	Write a note on hypoglycemic agents.	21/2

(F) Explain common causes of cancer.

- 5. Attempt any **TEN** of the following:
  - (i) Name the chemical reagent used in estimation of Haemoglobin.
  - (ii) Define pharmaceutical chemistry.
  - (iii) Define red blood cell.
  - (iv) What is the main reason of disorder of nervous system?
  - (v) Give the name of air borne disease.
  - (vi) What is respiratory system?
  - (vii) What is meant by local anaesthetic agent?
  - (viii) Give the chemical structure of paracetamol.
  - (ix) Give the side effect of morphine.
  - (x) What is chemotherapy?
  - (xi) Give the structural formula of sulphonyl urea.
  - (xii) What is the role of Biguanides drug?

 $1 \times 10 = 10$